

Message

From: Dolislager, Fredrick G. [dolislagerf1@ornl.gov]
Sent: 7/15/2020 7:06:13 PM
To: Walker, Stuart [Walker.Stuart@epa.gov]; Praskins, Wayne [Praskins.Wayne@epa.gov]
CC: Manning, Karessa [manningkl@ornl.gov]
Subject: RE: Hunters Point

For Sr-90 (Y-90) My consultation suggests that the surface factor for Y-90 currently in the BPRG calculator is much too small. The new value is much more in alignment with the emission energy. This solidifies our suspicion that there was some sort of inclusion criteria applied to the original set of surface factors. The new surface factors are more accurate.

Reach out to Caleigh if you need further explanation.

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Ex. 6 Personal Privacy (PP) C

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From: Dolislager, Fredrick G.
Sent: Wednesday, July 15, 2020 1:45 PM
To: 'Walker, Stuart' <Walker.Stuart@epa.gov>; Praskins, Wayne <Praskins.Wayne@epa.gov>
Cc: Manning, Karessa <manningkl@ornl.gov>
Subject: RE: Hunters Point

sure

fred d.

From: Walker, Stuart <Walker.Stuart@epa.gov>
Sent: Wednesday, July 15, 2020 1:43 PM
To: Dolislager, Fredrick G. <dolislagerf1@ornl.gov>; Praskins, Wayne <Praskins.Wayne@epa.gov>
Cc: Manning, Karessa <manningkl@ornl.gov>
Subject: [EXTERNAL] RE: Hunters Point

How about 2:30?

These runs are to compare against the Navy's current numbers to see if they fall within the CERCLA risk range using what has been discussed as a appropriate conceptual site model than the BPRG 3-D assumption of the floor, entire walls, and ceiling being contaminated. The BPRG can only do that in post processing mode by coming up with new surface factors in an MCNP run then using excel to adjust the 3D runs.

RESRAD Build has the problem of using the soil volume external slope factor for ground plane contamination then using some adjustment factor that is not explained and the ACE analysis indicates does match up to the results if RESRAD had used the correct SF, which they do for dose assessment where they use the ground plane dose conversion factor.

Stuart Walker
Superfund Remedial program National Radiation Expert
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From: Dolislager, Fredrick G. <dolislagerf1@ornl.gov>
Sent: Wednesday, July 15, 2020 1:15 PM
To: Praskins, Wayne <Praskins.Wayne@epa.gov>; Walker, Stuart <Walker.Stuart@epa.gov>
Cc: Manning, Karessa <manningkl@ornl.gov>
Subject: RE: Hunters Point

Just let me know when.

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From: Praskins, Wayne <Praskins.Wayne@epa.gov>
Sent: Wednesday, July 15, 2020 12:46 PM
To: Walker, Stuart <Walker.Stuart@epa.gov>; Dolislager, Fredrick G. <dolislagerf1@ornl.gov>
Cc: Manning, Karessa <manningkl@ornl.gov>
Subject: [EXTERNAL] RE: Hunters Point

I'm unclear how you propose to use these results. It would be good to talk. I'm open today 2:30 – 4 Eastern and then again at about 5:30 Eastern.

Wayne Praskins | Superfund Project Manager
U.S. Environmental Protection Agency Region 9
75 Hawthorne St. (SFD-7-3)
San Francisco, CA 94105
415-972-3181

From: Walker, Stuart <Walker.Stuart@epa.gov>
Sent: Wednesday, July 15, 2020 8:27 AM
To: Dolislager, Fredrick G. <dolislagerf1@ornl.gov>; Praskins, Wayne <Praskins.Wayne@epa.gov>
Cc: Manning, Karessa <manningkl@ornl.gov>
Subject: RE: Hunters Point

This looks good. I'm assuming Karessa could answer any questions that come up while [Ex. 6 Personal Privacy (PP)]? Maybe we can chat for a few minutes this afternoon, I have my 3rd meeting this morning at noon, and we have 4-5 later today.

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From: Dolislager, Fredrick G. <dolislagerf1@ornl.gov>
Sent: Tuesday, July 14, 2020 5:57 PM
To: Walker, Stuart <Walker.Stuart@epa.gov>; Praskins, Wayne <Praskins.Wayne@epa.gov>
Cc: Manning, Karessa <manningkl@ornl.gov>
Subject: RE: Hunters Point

Here are all four room positions for resident. I had to clean up the first file I sent you. These are all in SE. I can do indoor worker tomorrow.

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From: Walker, Stuart <Walker.Stuart@epa.gov>
Sent: Tuesday, July 14, 2020 5:16 PM
To: Dolislager, Fredrick G. <dolislagerf1@ornl.gov>; Praskins, Wayne <Praskins.Wayne@epa.gov>
Cc: Manning, Karessa <manningkl@ornl.gov>
Subject: [EXTERNAL] RE: Hunters Point

I didn't notice anything different in the attachment, it looks like just the surface factors?

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From: Dolislager, Fredrick G. <dolislagerf1@ornl.gov>
Sent: Tuesday, July 14, 2020 4:58 PM
To: Walker, Stuart <Walker.Stuart@epa.gov>; Praskins, Wayne <Praskins.Wayne@epa.gov>
Cc: Manning, Karessa <manningkl@ornl.gov>
Subject: RE: Hunters Point

Stuart,

Karessa helped me get the attached file in shape. This is a resident run in SE mode for all isotopes. It is concrete, center of room. There is a new tab that has the new surface factors. The 3-D External BPRG Individual tab has several new columns where I post-processed the BPRG run. Column T is the default BPRG for ground plane. Column Z is where I removed the Fsurf from the BPRG. Column AA calls the new splash factors. Column AB incorporates the new splash factors (Fsurf). Column AC is just a verification of the default results.

Please review.

I will try and do the other receptor positions before I go

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From: Walker, Stuart <Walker.Stuart@epa.gov>
Sent: Tuesday, July 14, 2020 4:24 PM
To: Praskins, Wayne <Praskins.Wayne@epa.gov>
Cc: Dolislager, Fredrick G. <dolislagerf1@ornl.gov>
Subject: [EXTERNAL] FW: Hunters Point

Fyi, the surface factors. **Ex. 6 Personal Privacy (PP)**

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From: Dolislager, Fredrick G. <dolislagerf1@ornl.gov>
Sent: Tuesday, July 14, 2020 11:30 AM
To: Walker, Stuart <Walker.Stuart@epa.gov>; Samuels, Caleigh <samuelsce@ornl.gov>
Subject: FW: Hunters Point

Stuart,

Attached are the draft surface factors for contaminated floors and partial walls (6 ft). This is a 10x10x10 concrete room with surface contamination. In the file you will find 4 receptor positions. I included a little table comparing the current surface factors to the new ones. You'll notice a large difference in some low energy photon emitters such as Am-241. This is to be expected as the interactions for low energy photons are heavily dependent on the soil composition used for the baselines. We are pretty happy with the data trends, but consider this a preliminary release, please. If you need anything additionally, please communicate with Caleigh and copy me.

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Caleigh